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L1	4853	705/26-27.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/02 10:03
L2	2	"5594529".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/02 10:03
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L4	7	("4583834"   "5057866"   "5077582"   "5282127"   "5305199"   "5335048"   "5369471").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/02 10:04
L5	1	"5606403".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/02 10:04
L6	2	"5606403".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/02 10:04
L7	8	("4669856"   "4786942"   "4951091"   "4987449"   "5095331"   "5162849"   "5359396"   "5430530").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/02 10:04
L8	4	("5606403").URPN.	USPAT	OR	ON	2005/09/02 10:04
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L11	3	("5685653").URPN.	USPAT	OR	ON	2005/09/02 10:05
L12	11	("4440514"   "4619537"   "4632582"   "4728206"   "4969761"   "4984913"   "5035522"   "5087137"   "5108209"   "5162815"   "5318369").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/02 10:05
S10 8	190	consumable and (printer imaging electrophotographic facsimile) and (time near3 period) and (detect\$5 near5 (toner paper)) and signal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/26 16:35

S11 5	636	399/81.ccls. <i>reviewed</i>	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/26 16:38
S12 0	6	S108 and S115	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:06
S12 1	1159	count\$7 same time same period same (detect\$6) same signal same adjust\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:31
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S12 3	18	S121 and S122	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:08
S12 4	137	(count\$7 same time same period same (detect\$6) same signal same adjust\$6) and ((image near5 apparatus) (copy adj machine) printer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:33
S12 5	0	(count\$7 same time same period same (detect\$6) same signal same adjust\$6) and ((image near5 apparatus) (copy adj machine) printer) and (@ad<"10000719").ad.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:33
S12 6	111	(count\$7 same time same period same (detect\$6) same signal same adjust\$6) and ((image near5 apparatus) (copy adj machine) printer) and (@ad<"19990719").ad.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:33
S12 7	119	(count\$7 same time same period same (detect\$6) same signal same adjust\$6) and ((image near5 apparatus) (copy\$5 adj machine) printer) and (@ad<"19990719").ad.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:44
S12 8	197	time with period with adjust\$6 with input with (apparatus printer machine image)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 10:45
S12 9	130	(time with period with adjust\$6 with input with (apparatus printer machine image)) and (@ad<"19990719").ad.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 11:46

S13 0	130	(time with period with adjust\$6 with input with (apparatus printer machine image facsimile copier duplicator)) and (@ad<"19990719").ad.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/26 11:48
S13 1	10	time with period with adjust\$6 with input with (apparatus printer machine image) with user	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 09:43
S13 2	2156	(time with adjust\$6 with user) same (apparatus printer machine image)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 09:44
S13 3	184	(time with period with adjust\$6 with user) same (apparatus printer machine image)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 09:50
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S13 8	342	(time with period with (adjust\$6 chang\$5 modif\$7 updat\$6) with user with signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 09:52
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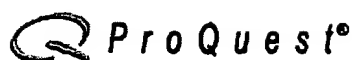
S14 2	5	S135 and S141	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 09:53
S14 3	45416	(time with (adjust\$6 chang\$5 modif\$7 updat\$6) with user)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 14:52
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S14 5	128	S135 and S143 and (@ad<"19990719").ad.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 10:44
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S14 9	166031	(time with (adjust\$6 chang\$5 modif\$7 updat\$6) with signal)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:02
S15 0	1006	S147 and S149	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:02
S15 1	52919	(time with (adjust\$6 chang\$5 modif\$7 updat\$6) with signal).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:03
S15 2	226	S147 and S151	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:02
S15 3	214	S152 and (@ad<"19990719").ad.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:03

S15 4	27937	((time near5 (adjust\$6 chang\$5 modif\$7 updat\$6)) with signal).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:04
S15 5	122	S147 and S154	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:05
S15 6	2	"5606403".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/30 15:05
S15 7	4	("5606403").URPN.	USPAT	OR	ON	2005/08/30 15:06
S15 8	5501	((time near3 period) near5 (adjust\$6 chang\$6 modif\$7 updat\$7)) with signal	USPAT	OR	ON	2005/08/30 15:17
S15 9	761	399/24-30.ccls.	USPAT	OR	ON	2005/08/30 15:07
S16 0	5	S158 and S159	USPAT	OR	ON	2005/08/30 15:07
S16 1	90521	(time near3 period) with signal	USPAT	OR	ON	2005/08/30 15:09
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S16 4	4815	((time near3 period) near5 (set)) with signal	USPAT	OR	ON	2005/08/30 15:24
S16 5	4	S159 and S164	USPAT	OR	ON	2005/08/30 15:17
S16 6	78	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6) near7 user) with signal	USPAT	OR	ON	2005/08/30 15:26
S16 7	0	S159 and S166	USPAT	OR	ON	2005/08/30 15:25
S16 8	1	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6) near7 user) with signal) and (consumable toner)	USPAT	OR	ON	2005/08/30 15:26
S16 9	6	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6)) near7 user) with signal) and (consumable toner paper)	USPAT	OR	ON	2005/08/30 15:28
S17 0	71	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6)) near7 input\$5) with signal) and (consumable toner paper)	USPAT	OR	ON	2005/08/30 15:30

S17 1	1	S159 and S170	USPAT	OR	ON	2005/08/30 15:28
S17 2	1088	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6)) with signal) and (consumable toner paper)	USPAT	OR	ON	2005/08/30 15:30
S17 3	1043	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6)) with signal) same (counter count)	USPAT	OR	ON	2005/08/30 15:33
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S17 5	72	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6)) with user) same (counter count)	USPAT	OR	ON	2005/08/30 15:39
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S17 8	0	S177 and "299"/\$.ccls.	USPAT	OR	ON	2005/08/30 15:36
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S18 0	230	(time near3 period) same ((set adjust\$5 chang\$6 modif\$6) near5 user) same (counter count)	USPAT	OR	ON	2005/08/30 15:38
S18 1	1	S180 and S159	USPAT	OR	ON	2005/08/30 15:38
S18 2	156	(time near3 period) same ((input\$6) near5 user) same (counter count)	USPAT	OR	ON	2005/08/30 15:38
S18 3	1	S182 and S159	USPAT	OR	ON	2005/08/30 15:38
S18 4	44	((time near3 period) near5 (set adjust\$5 chang\$6 modif\$6)) with operator) same (counter count)	USPAT	OR	ON	2005/08/30 15:40
S18 5	0	S184 and S159	USPAT	OR	ON	2005/08/30 15:39
S18 6	111	((time near3 period) with (control\$5) with user) same (counter count)	USPAT	OR	ON	2005/08/30 15:40
S18 7	0	S186 and S159	USPAT	OR	ON	2005/08/30 15:40
S18 8	92	((time near3 period) with (signal) with user) same (counter count)	USPAT	OR	ON	2005/08/30 15:40
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S19 0	74	((user operator) with (set adjust\$5 modify\$5 updat\$6 chang\$6) with (time near3 period)) same signal same (count counter)	USPAT	OR	ON	2005/08/30 15:44
S19 1	63	((user operator) with (set adjust\$5 modify\$5 updat\$6 chang\$6) with (time near3 period)) same signal same (count counter) and (@ad<"19990719").ad.	USPAT	OR	ON	2005/08/30 15:45
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Problems with copiers often stem from using toners and papers of inferior quality, or more likely, using consumables that sat unused and open on storeroom shelves for long periods of time. Toner replacement is a major copier consumable. However, many copier models now use cartridges that contain toners, roller, and developer in one unit that can be simply replaced by the user. These new cartridges have introduced the new business of reconditioning or recycling cartridges. Recycling them is less expensive than replacement, but the use of recycled cartridges can affect a machine's warranty. Paper is the main copier consumable. The qualities to look for in copier papers include: 1. a smooth, even surface, 2. opacity, 3. bulk, and 4. stiffness. The best policy is to use the type of paper recommended by the copier and paper manufacturers in order to avoid any problems. Considerable toner and paper with extra weight and strength should be used for color copying. The services offered by copier manufacturers can help ensure optimum use of consumables.

Full Text (1094 words)

*Copyright Office Systems Magazine Corporation Jul 1991*

Copiers are designed and built for trouble-free service and long, continual use, but their maintenance and operation involve more than simply "adding toner and inserting paper."

Locating the copier in the office deserves more attention than the subject often receives. High-volume copiers -- involving investments of \$20,000 and up -- are more likely to be given careful consideration as to their site. They are usually located in climate-controlled offices that are free of dust and vibration.

But not all copiers are as fortunate. Some are positioned near shipping and receiving platforms and other places where cold, dust, heat, humidity and sunlight can affect machine operation and consumables such as toners and

paper.

Sometimes small copiers are placed in factory offices or "on the floor" in shipping and receiving departments, repair shops, construction site offices and other places where performance can be adversely affected.

Besides environmental hazards, problems with copiers often stem from using toners and papers of inferior quality or, more likely, from using consumables that sat unused and open on storeroom shelves for long periods of time. Thrift is a virtue, but not when toner and paper are used simply to "use up old stocks." The few dollars saved can introduce greater expenses.

Toner replacement is a major copier consumable. Historically, liquid and dry toners have been used in making copies from a master. However, many of the more than 300 copier models now available use integral cartridges that contain toners, roller and developer in a single, replaceable cartridge. This has significantly reduced the number of calls for replacement and service.

Adding toner previously meant taking a machine out of service for several hours and sometimes a day while the service person added toner and cleaned the photoconditioner and other components. But the introduction of cartridges containing a drum and toner put the procedure in the hands of the user. It also introduced a new business: reconditioning or recycling cartridges.

Recycling cartridges is less expensive than new cartridge replacement. However, many manufacturers advise against it. Use of a recycled cartridge can affect the machine's warranty.

Reconditioned cartridges typically cost less than new or discounted cartridges. But they must be properly reconditioned and suitable for the machine, otherwise they will not save the users any cost. Thorough refurbishing involves taking the cartridges apart and removing paper, dust, lint and any other contaminants.

Today's color cartridges may introduce other problems. Formulated of special polymers, they must be placed precisely on the photoconductor before the image is transferred to the paper. In one process, the color is supplied by a film combining hues that, when exposed to light, transfer the image to a special paper.

The new, high-volume color copiers have many additional features. Among them are automatic editing, reduction/enlargement, duplexing, dual-page edge erase, image shift, reverse image and others, as well as color copying.

They also have optional features such as automatic document feeder, automatic tray switch, automatic cover and slip-sheet insertion, programmable job memories, and collating and binding. Some of these may require special service and should be carefully checked during the warranty period.

Paper, of course, is the major copier consumable. Millions of pages pass through copiers every day at speeds sometimes exceeding 100 copies a minute. The projects range from single-page documents to 200- and 300-page copies of manuals, proposals and the many other forms of documentation.

The qualities to look for in copier papers include a smooth, even surface; opacity; bulk; and stiffness. Control of moisture content can be critical. The papers are usually made in substance weights of 16, 20 and 24 pound, with 20 pound being the most commonly used.

Some of the new blue-white shades of white help make copies even more readable because they are so clean and crisp. The new formulations and improvements in the papermaking process help give the copier papers the impressive appearance needed for executive proposals and other high-quality work.

Copier papers are available in letter size, letter size with 3-hole punch and legal size. As with other papers, they are available in reams of 500 sheets and cartons containing 10 reams.

Paper and copier manufacturers have worked closely to develop papers that operate satisfactorily in the machines, with a minimum of curling and jamming. But, as a rule, the best policy is to use those specified by the copier and paper manufacturers in order to avoid any problems.

Color copying is becoming increasingly common. It makes special demands on papers for the best results. The recommended papers are smooth, level sheets of high brightness and opacity. Inasmuch as the papers can pass through the copying process as many as four times, considerable toner must be used. And that can result in curling. So, extra paper strength and weight are needed.

Color paper has many uses and is becoming increasingly popular. The color papers offered by the major companies have been carefully selected and their quality precisely controlled so the text and graphics appearing on them are not overwhelmed by the background hue.

This is important in copying, as in printing, because "reverse type" (type printed on a dark background) is not always successful. The effect of a light color type on black can be dramatic for headlines and short blocks of copy. It is especially useful where copy is secondary to illustration and graphics effects. However, it does not read as easily in the small type sizes.

Good readability in color copying depends on the shades of color used, the quality of the master, size and readability of the type and the paper on which copies are being made. When in doubt, make a short trial run.

In many business operations, copying labels is the answer to handling mailing lists. It can save typing and retyping lists that are too short for computerization. Using a master copy, the sheets can be copied and recopied even when addresses are deleted from the page.

A word of caution: Label selection is often dependent on the copier process and toner. Pressure-sensitive labels may separate as they move through the paper path. (A small quantity of labels should be tested first.) If the address label is torn away or removed, the envelope will almost certainly be undeliverable and may even be nonreturnable.

Most copier manufacturers have simplified the process necessary to obtain service. Many have local sales/service branches or representatives. Still others offer immediate service through 800 telephone numbers. These services, too, can help ensure optimum use of consumables, in addition to increasing copier performance and dependability.

William M. Cowan covers the business scene from Massachusetts.

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